

SYLLABUS  
PART I  
EDISON STATE COMMUNITY COLLEGE  
RSP 115S RESPIRATORY SCIENCES  
2 CREDIT HOURS

**COURSE DESCRIPTION**

This course will highlight the relationship between respiratory therapy and the gas laws, chemistry, and microbiology. Students will learn about physics, surface tension, the role of acid-base balance in ABG interpretation, the cleaning/sterilization/disinfection of hospital equipment, among other general healthcare science topics. Prerequisite: Instructor permission. Lab fee.

**COURSE GOALS**

The student will:

Bloom's Level		Program Outcomes
4	1. Describe the relationship between the practice of respiratory therapy and the physical and chemical theories discussed.	2
3	2. Apply the knowledge of microorganisms to the role of infection control and cleaning processes of hospital equipment.	2
5	3. Appropriately analyze and interpret arterial blood gases.	2

**CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

**TOPIC OUTLINE:**

1. Chemistry
2. Gas laws
3. Components of blood
4. Acid-base balance
5. Microbiology